SEQUENCE LISTING

- (1) GENERAL INFORMATION
- (i) APPLICANT: INCYTE PHARMACEUTICALS, INC.
- (ii) TITLE OF THE INVENTION: NOVEL HUMAN MAGE-LIKE PROTEIN
- (iii) NUMBER OF SEQUENCES: 6
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
 - (B) STREET: 3174 Porter Drive
 - (C) CITY: Palo Alto
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) pct APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Herewith
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: us 08/773,870
 - (B) FILING DATE: 27-DEC-1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Billings, Lucy J.
 - (B) REGISTRATION NUMBER: 36,749
 - (C) REFERENCE/DOCKET NUMBER: PF-0179 PCT
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650-855-0555
 - (B) TELEFAX: 650-845-4166
 - (C) TELEX:
 - (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Consensus

(B) CLONE: Consensus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met 1	Ala	Phe	Pro	Arg 5	Pro	Lys	Lys	Asn	Leu 10	Pro	Gln	Pro	Lys	Xaa 15	Ala
Ala	Thr	Glu	Gly 20	Pro	Ser	Ala	Ala	Ser 25	Gly	Val	Pro	Gln	Thr	Gly	Pro
Gly	Arg	Glu 35	Val	Ala	Ala	Thr	Arg 40	Pro	Lys	Thr	Thr	Lys 45	Ser	Gly	Lys
Ala	Leu 50	Ala	Lys	Thr	Arg	Trp 55	Val	Glu	Pro	Gln	Asn 60	Val	Val	Ala	Ala
Ala 65	Ala	Ala	Lys	Ala	Lys 70	Met	Ala	Thr	Ser	Ile 75	Pro	Glu	Pro	Glu	Gly 80
Ala	Ala	Ala	Ala	Thr 85	Ala	Gln	His	Ser	Ala 90	Glu	Pro	Trp	Ala	Arg 95	
Gly	Gly	Lys	Arg 100	Thr	Lys	Lys	Ser	Lys 105	His	Leu	Asp	Asp	Glu 110	Tyr	Glu
Ser	Ser	Glu 115	Glu	Glu	Arg	Glu	Thr 120	Pro	Ala	Val	Pro	Pro 125	Thr	Trp	Arg
Ala	Ser 130	Gln	Pro	Ser	Leu	Thr 135	Val	Arg	Ala	Gln	Leu 140	Ala	Pro	Arg	Pro
Pro 145	Met	Ala	Pro	Arg	Ser 150	Gln	Ile	Pro	Ser	Arg 155	His	Val	Leu	Сув	Leu 160
Pro	Pro	Arg	Asn	Val 165	Thr	Leu	Leu	Gln	Glu 170	Arg	Ala	Asn	Lys	Leu 175	Val
Lys	Tyr	Leu	Met 180	Ile	Lys	Asp	Tyr	Lys 185	Lys	Ile	Pro	Ile	Lys 190	Arg	Ala
Asp	Met	Leu 195	Lys	Asp	Val	Ile	Arg 200	Glu	Tyr	Asp	Glu	His 205	Phe	Pro	Glu
Ile	Ile 210	Glu	Arg	Ala	Thr	Tyr 215	Thr	Leu	Glu	Lys	Lys 220	Phe	Gly	Ile	His
Leu 225	Lys	Glu	Ile	Asp	Lys 230	Glu	Glu	His	Leu	Tyr 235	Ile	Leu	Val	Cys	Thr 240
Arg	Asp	Ser	Ser	Ala 245	Arg	Leu	Leu	Gly	Lys 250	Thr	Lys	Asp	Thr	Pro 255	Arg
Leu	Ser	Leu	Leu 260	Leu	Val	Ile	Leu	Gly 265	Val	Ile	Phe	Met	Asn 270	Gly	Asn
Arg	Ala	Ser 275	Glu	Ala	Val	Leu	Trp 280	Glu	Ala	Leu	Arg	Lys 285	Met	Gly	Leu
Arg	Pro 290	Gly	Val	Arg	His	Pro 295	Leu	Leu	Gly	Asp	Leu 300	Arg	Lys	Leu	Leu
Thr 305		Glu	Phe			Gln		Tyr		Asp 315		Arg	Arg	Val	Pro 320
Asn	Ser	Asn	Pro	Pro 325	Glu	Tyr	Glu	Phe	Leu 330	Trp	Gly	Leu	Arg	Ser 335	Tyr
His	Glu	Thr	Ser 340	Lys	Met	Lys	Val	Leu 345	Arg	Phe	Ile	Ala	G1u 350	Val	Gln
Lys	Arg	Asp 355	Pro	Arg	Asp	Trp	Thr 360	Ala	Gln	Phe	Met	Glu 365	Ala	Ala	Asp
Glu	Ala 370	Leu	Asp	Ala	Leu	Asp 375	Ala	Ala	Ala	Ala	Glu 380	Ala	Glu	Ala	Arg
Ala 385	Glu	Ala	Arg	Thr	Arg 390	Met	Gly	Ile	Gly	Asp 395	Glu	Ala	Val	Ser	Gly 400
Pro	Gly	Ala	Gly	Met	Thr	Leu	Ser	Leu	Ser	Cys					

405 410

- (2) INFORMATION FOR SEQ ID NO:2:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: Consensus
 - (B) CLONE: Consensus
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CNACGNGAAT GGCCTTCCC	CGCCCCAAGA	AGAACCTGCC	CCAGCCCAAG	NAGGCTGCCA	60
CAGAGGGCCC CAGTGCTGCC	TCTGGTGTGC	CCCAGACGGG	ACCTGGCAGG	GAGGTGGCAG	120
CCACCCGGCC CAAGACCACC	AAGTCGGGGA	AGGCGCTGGC	CAAGACTCGG	TGGGTGGAGC	180
CTCAGAATGT TGTGGCAGC	GCTGCTGCCA	AGGCCAAGAT	GGCCACGAGC	ATCCCTGAGC	240
CGGAGGGTGC AGCTGCTGCC	ACTGCTCAGC	ACAGTGCTGA	GCCCTGGGCC	AGGATGGGAG	300
GCAAGAGGAC CAAGAAGTCC	AAGCACCTGG	ATGATGAGTA	TGAGAGCAGC	GAGGAGGAGA	360
GAGAGACTCC CGCGGTCCCA	CCCACCTGGA	GAGCATCACA	GCCCTCATTG	ACGGTGCGGG	420
CTCAGTTGGC CCCTCGGCCC	CCGATGGCCC	CGAGGTCCCA	GATACCCTCA	AGGCACGTAC	480
TGTGCCTGCC CCCCGCAAC	GTGACCCTTC	TGCAGGAGAG	GGCAAATAAG	TTGGTGAAAT	540
ACCTGATGAT TAAGGACTAG	AAGAAGATCC	CCATCAAGCG	CGCAGACATG	CTGAAGGATG	600
TCATCAGAGA ATATGATGA	CATTTCCCTG	AGATCATTGA	ACGAGCAACG	TACACCCTGG	660
AAAAGAAGTT TGGGATCCAG	CTGAAGGAGA	TCGACAAGGA	AGAACACCTG	TATATTCTTG	720
TCTGCACACG GGACTCCTC	GCTCGCCTCC	TTGGAAAAAC	CAAGGACACT	CCCAGGCTGA	780
GTCTCCTCTT GGTGATTCTC	GGCGTCATCT	TCATGAATGG	CAACCGTGCC	AGCGAGGCTG	840
TCCTCTGGGA GGCACTACGO	AAGATGGGAC	TGCGTCCTGG	GGTGAGACAT	CCCCTCCTTG	900
GAGATCTAAG GAAACTTCTC	ACCTATGAGT	TTGTAAAGCA	GAAATACCTG	GACTACAGAC	960
GAGTGCCCAA CAGCAACCC	CCGGAGTATG	AGTTCCTCTG	GGGCCTCCGT	TCCTACCATG	1020
AGACTAGCAA GATGAAAGTO	CTGAGATTCA	TTGCAGAGGT	TCAGAAAAGA	GACCCTCGTG	1080
ACTGGACTGC ACAGTTCATO	GAGGCTGCAG	ATGAGGCCTT	GGATGCTCTG	GATGCTGCTG	1140
CAGCTGAGGC CGAAGCCCGC	GCTGAAGCAA	GAACCCGCAT	GGGAATTGGA	GATGAGGCTG	1200
TGTCTGGGCC CGGAGCTGGC	ATGACATTGA	GTTTGAGCTG	CTGACCT		1247

- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 347 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 608993
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Met Pro Arg Gly Gln Lys Ser Lys Leu Arg Ala Arg Glu Lys Arg Arg 1 5 10 15 Lys Ala Arg Glu Glu Thr Gln Gly Leu Lys Val Arg His Ala Thr Ala

			20					25					30		
Ala	Glu	Lys 35	Glu	Glu	Сув	Pro	Ser 40	Ser	Ser	Pro	Val	Leu 45	Gly	Asp	Thr
Pro	Thr 50	Ser	Ser	Pro	Ala	Ala 55	Gly	Ile	Pro	Gln	Lys 60	Pro	Gln	Gly	Ala
Pro 65	Pro	Thr	Thr	Thr	Ala 70	Ala	Ala	Ala	Val	Ser 75	Cys	Thr	Glu	Ser	Asp 80
Glu	Gly	Ala	Lys	Суs 85	Gln	Gly	Glu	Glu	Asn 90	Ala	Ser	Phe	Ser	Gln 95	Ala
Thr	Thr	Ser	Thr 100	Glu	Ser	Ser	Val	Lys 105	Asp	Pro	Val	Ala	Trp 110	Glu	Ala
Gly	Met	Leu 115	Met	His	Phe	Ile	Leu 120	Arg	Lys	Tyr	Lys	Met 125	Arg	Glu	Pro
Ile	Met 130	Lys	Ala	Asp	Met	Leu 135	Lys	Val	Val	Asp	Glu 140	Lys	Tyr	Lys	Asp
His 145	Phe	Thr	Glu	Ile	Leu 150	Asn	Gly	Ala	Ser	Arg 155	Arg	Leu	Glu	Leu	Val 160
Phe	Gly	Leu	Asp	Leu 165	Lys	Glu	Asp	Asn	Pro 170	Ser	Ser	His	Thr	Tyr 175	Thr
Leu	Val	Ser	Lys 180	Leu	Asn	Leu	Thr	Asn 185	Asp	Gly	Asn	Leu	Ser 190	Asn	Asp
Trp	Asp	Phe 195	Pro	Arg	Asn	Gly	Leu 200	Leu	Met	Pro	Leu	Leu 205	Gly	Val	Ile
Phe	Leu 210	Lys	Gly	Asn	Ser	Ala 215	Thr	Glu	Glu	Glu	11e 220	Trp	Lys	Phe	Met
Asn 225	Val	Leu	Gly	Ala	Tyr 230	Asp	Gly	Glu	Glu	His 235	Leu	Ile	Tyr	Gly	Glu 240
Pro	Arg	Lys	Phe	Ile 245	Thr	Gln	Asp	Leu	Val 250	Gln	Glu	Lys	Tyr	Leu 255	Lys
Tyr	Glu	Gln	Val 260	Pro	Asn	Ser	Asp	Pro 265	Pro	Arg	Tyr	Gln	Phe 270	Leu	Trp
Gly	Pro	Arg 275	Ala	Tyr	Ala	Glu	Thr 280	Thr	Lys	Met	Lys	Val 285	Leu	Glu	Phe
	290					295					300			His	
Glu 305	Glu	Ala	Leu	Arg	Asp 310	Glu	Glu	Glu	Arg	Ala 315	Gln	Val	Arg	Ser	Ser 320
Val	Arg	Ala	Arg	Arg 325	Arg	Thr	Thr	Ala	Thr 330	Thr	Phe	Arg	Ala	Arg 335	Ser
Arg	Ala	Pro	Phe 340	Ser	Arg	Ser	Ser	His	Pro	Met					

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 533511
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Pro Arg Ala Pro Lys Arg Gln Arg Cys Met Pro Glu Glu Asp Leu 5 10 Gln Ser Gln Ser Glu Thr Gln Gly Leu Glu Gly Ala Gln Ala Pro Leu 25 Ala Val Glu Glu Asp Ala Ser Ser Ser Thr Ser Thr Ser Ser Ser Phe 40 45 Pro Ser Ser Phe Pro Ser Ser Ser Ser Ser Ser Ser Ser Ser Tyr Pro Leu Ile Pro Ser Thr Pro Glu Glu Val Ser Ala Asp Asp Glu Thr 70 75 Pro Asn Pro Pro Gln Ser Ala Gln Ile Ala Cys Ser Ser Pro Ser Val Val Ala Ser Leu Pro Leu Asp Gln Ser Asp Glu Gly Ser Ser Ser Gln 100 105 Lys Glu Glu Ser Pro Ser Thr Leu Gln Val Leu Pro Asp Ser Glu Ser 120 125 Leu Pro Arg Ser Glu Ile Asp Glu Lys Val Thr Asp Leu Val Gln Phe 135 140 Leu Leu Phe Lys Tyr Gln Met Lys Glu Pro Ile Thr Lys Ala Glu Ile 150 155 Leu Glu Ser Val Ile Lys Asn Tyr Glu Asp His Phe Pro Leu Leu Phe 170 Ser Glu Ala Ser Glu Cys Met Leu Leu Val Phe Gly Ile Asp Val Lys 185 Glu Val Asp Pro Thr Gly His Ser Phe Val Leu Val Thr Ser Leu Gly 200 Leu Thr Tyr Asp Gly Met Leu Ser Asp Val Gln Ser Met Pro Lys Thr 215 Gly Ile Leu Ile Leu Ser Ile Ile Phe Ile Glu Gly Tyr Cys 230 235 Thr Pro Glu Glu Val Ile Trp Glu Ala Leu Asn Met Met Gly Leu Tyr 245 250 Asp Gly Met Glu His Leu Ile Tyr Gly Glu Pro Arg Lys Leu Leu Thr 260 265 Gln Asp Trp Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly 280 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala His Ala 295 300 Glu Ile Arg Lys Met Ser Leu Leu Lys Phe Leu Ala Lys Val Asn Gly 310 315 Ser Asp Pro Arg Ser Phe Pro Leu Trp Tyr Glu Glu Ala Leu Lys Asp 325 330 Glu Glu Glu Arg Ala Gln Asp Arg Ile Ala Thr Thr Asp Asp Thr Thr 345 Ala Met Ala Ser Ala Ser Ser Ser Ala Thr Gly Ser Phe Ser Tyr Pro 360 365 Glu

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: 1165170
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met 1	Phe	Ser	Trp	Lys 5	Ala	Ser	Lys	Ala	Arg 10	Ser	Pro	Leu	Ser	Pro 15	Arg
Tyr	Ser	Leu	Pro 20	Gly	Ser	Thr	Glu	Val 25	Leu	Thr	Gly	Cys	His 30	Ser	Tyr
Pro	Ser	Arg 35	Phe	Leu	Ser	Ala	Ser 40	Ser	Phe	Thr	Ser	Ala 45	Leu	Ser	Thr
Val	Asn 50	Met	Pro	Arg	Gly	Gln 55	Lys	Ser	Lys	Thr	Arg 60	Ser	Arg	Ala	Lys
Arg 65	Gln	Gln	Ser	Arg	Arg 70	Glu	Val	Pro	Val	Val 75	Gln	Pro	Thr	Ala	Glu 80
				85			Asp		90					95	
Gly	Gly	Ser	Ala 100	Pro	Gln	Gly	Val	Lys 105	Thr	Pro	Gly	Ser	Phe 110	Gly	Ala
Gly	Val	Ser 115	Суѕ	Thr	Gly	Ser	Gly 120	Ile	Gly	Gly	Arg	Asn 125	Ala	Ala	Val
Leu	Pro 130	Asp	Thr	Lys	Ser	Ser 135	Asp	Gly	Thr	Gln	Ala 140	Gly	Thr	Ser	Ile
Gln 145	His	Thr	Leu	Lys	Asp 150	Pro	Ile	Met	Arg	Lys 155	Ala	Ser	Val	Leu	Ile 160
Glu	Phe	Leu	Leu	Asp 165	Lys	Phe	Lys	Met	Lys 170	Glu	Ala	Val	Thr	Arg 175	Ser
Glu	Met	Leu	Ala 180	Val	Val	Asn	Lys	Lys 185	Tyr	Lys	Glu	Gln	Phe 190	Pro	Glu
Ile	Leu	Arg 195	Arg	Thr	Ser	Ala	Arg 200	Leu	Glu	Leu	Val	Phe 205	Gly	Leu	Glu
Leu	Lys 210	Glu	Ile	Asp	Pro	Ser 215	Thr	His	Ser	Tyr	Leu 220	Leu	Val	Gly	Lys
Leu 225	Gly	Leu	Ser	Thr	Glu 230	Gly	Ser	Leu	Ser	Ser 235	Asn	Trp	Gly	Leu	Pro 240
Arg	Thr	Gly	Leu	Leu 245	Met	Ser	Val	Leu	Gly 250	Val	Ile	Phe	Met	Lys 255	Gly
			260				Val	265					270		
		275					Leu 280					285			
	290					295	Asn				300				
305					310		Glu			315					320
				325					330					335	Asn
Gly	Thr	Val	Pro 340	Ser	Ala	Phe	Pro	Asn 345	Leu	Tyr	Gln	Leu	Ala 350	Leu	Arg
		355					Arg 360					Gly 365	Lys	Gly	Val
His	Ser	Lys	Ala	Pro	Ser	Gln	Lys	Ser	Ser	Asn	Met				

370 375 380

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: GenBank
- (B) CLONE: 1040691

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Met 1	Ser	Glu	Gln	Ser 5	Lys	Asp	Leu	Ser	Asp 10	Pro	Asn	Phe	Ala	Ala 15	Glu
Ala	Pro	Asp	Cys 20	Glu	Met	Gln	Asp	Ser 25	Asp	Ala	Val	Pro	Val 30	Gly	Ile
Pro	Pro	Pro 35	Ala	Ser	Leu	Ala	Ala 40	Asn	Leu	Ala	Gly	Pro 45	Pro	Суѕ	Ala
Pro	Glu 50	Gly	Pro	Met	Ala	Ala 55	Gln	Gln	Ala	Ser	Pro 60	Pro	Pro	Glu	Glu
Arg 65	Ile	Glu	Asp	Val	Asp 70	Pro	Lys	Ile	Leu	Gln 75	Gln	Ala	Ala	Glu	Glu 80
Gly	Arg	Ala	His	Gln 85	Pro	Gln	Ser	Pro	Ala 90	Arg	Pro	Ile	Pro	Ala 95	Pro
Pro	Ala	Pro	Ala 100	Gln	Leu	Val	Gln	Lys 105	Ala	His	Glu	Leu	Met 110	Trp	Tyr
Val	Leu	Val 115	Lys	Asp	Gln	Lys	Arg 120	Met	Val	Leu	Trp	Phe 125	Pro	Asp	Met
Val	Lys 130	Glu	Val	Met	Gly	Ser 135	Tyr	Lys	Lys	Trp	Cys 140	Arg	Ser	Ile	Leu
Arg 145	Arg	Thr	Ser	Val	Ile 150	Leu	Ala	Arg	Val	Phe 155	Gly	Leu	His	Leu	Arg 160
Leu	Thr	Asn	Leu	His 165	Thr	Met	Glu	Phe	Ala 170	Leu	Val	Lys	Ala	Leu 175	Ser
Pro	Glu	Glu	Leu 180	Asp	Arg	Val	Ala	Leu 185	Asn	Asn	Arg	Met	Pro 190	Met	Thr
Gly	Leu	Leu 195	Leu	Met	Ile	Leu	Ser 200	Leu	Ile	Tyr	Val	Lys 205	Gly	Arg	Gly
Ala	Arg 210	Glu	Gly	Ala	Val	Trp 215	Asn	Val	Leu	Arg	Ile 220	Leu	Gly	Leu	Arg
Pro 225	Trp	Lys	Lys	His	Ser 230	Thr	Phe	Gly	Asp	Val 235	Arg	Lys	Ile	Ile	Thr 240
Glu	Glu	Phe	Val	Gln 245	Gln	Asn	Tyr	Leu	Lys 250	Tyr	Gln	Arg	Val	Pro 255	His
Ile	Glu	Pro	Pro 260	Glu	Tyr	Glu	Phe	Phe 265	Trp	Gly	Ser	Arg	Ala 270	Asn	Arg
Glu	Ile	Thr 275	Lys	Met	Gln	Ile	Met 280	Glu	Phe	Leu	Ala	Arg 285	Val	Phe	Lys
Lys	Asp 290	Pro	Gln	Ala	Trp	Pro 295	Ser	Arg	Tyr	Arg	Glu 300	Ala	Leu	Glu	Gln
Ala	Arg	Ala	Leu	Arg	Glu	Ala	Asn	Leu	Ala	Ala	Gln	Ala	Pro	Arg	Ser

305 310 315 320

Ser Val Ser Glu Asp

325